

**STATE OF IDAHO
DEPARTMENT OF LANDS
REQUEST FOR QUOTATIONS**

STOCKING SURVEY

Contract 10-219-310053

SOLICITATIONS CLOSE 3 PM MST on April 2, 2010

The purpose of this Request for Quotations (RFQ) package is to solicit sealed quotes for the efficient completion of the stand stocking survey work outlined in the attached project descriptions and contract documents.

INSTRUCTIONS:

The right is reserved to accept or reject quotations on each item separately or as a whole. All price quotes will be entered on the attached Schedule A. The Schedule A is signed and returned to the address listed below. Responders may quote on any or all of the projects listed.

Sealed RFQ's must be received by the Idaho Department of Lands at 300 N 6th St Suite 103, Boise, Idaho, 83702 by 3:00 PM M.S.T. April 2, 2010. The Department of Lands is not responsible for lost or undelivered RFQ's or for failure of the United States Postal Service or the Idaho State Capital Mall Central Mail Room to deliver RFQ's to the Idaho Department of Lands by the RFQ closing deadline. **Late RFQ's will not be accepted. Fax RFQ's will not be accepted.**

Delivery Address:

Idaho Department of Lands
ATTN: Tony Pirc
300 N. 6th St Suite 103
Boise, ID 83702

RFQ's are to be mailed in a sealed envelope and are to be marked in the lower left hand corner with the following information:

Sealed RFQ For:	10-219-310053 Stocking Survey Contract
RFQ Close:	April 2, 2010 at 3 P.M. M.S.T.

A RFQ submitted using "Express/Overnight" services must be shipped in a separate sealed inner envelope identified as stated above and enclosed inside the "Express/Overnight" shipping envelope.

QUESTIONS

Questions pertaining to RFQ specifications may be submitted by phone or email to Tom Flee at tflee@idl.idaho.gov 208-666-8615 or to the Area contact listed in the project descriptions.

**ATTACHMENT 1
SCHEDULE A
CONTRACT NO. 10-219-310053
STOCKING SURVEY**

SUPERVISORY AREA	PROJECT NAME AND NUMBER	NUMBER OF PLOTS	PRICE PER PLOT	TOTAL EXTENDED AMOUNT
Cataldo 10-219-310053	Initial Backside Stocking FM# 31-053-100-10	584	\$	\$

Any additional work required under this contract but not scheduled will be performed at the rates shown herein. An approved and signed contract modification will be required prior to the starting of additional work.

In the case of math errors, the **PRICE PER PLOT** will be correctly extended and the corrected **TOTAL EXTENDED AMOUNT** will be the basis for award.

What is your State of domicile? _____

Do you carry workers compensation insurance? _____

Company Name _____

Contractor's Email _____

Contractor's Name _____

Contractor's Phone _____

Mailing Address _____

Taxpayer ID # _____

Contractors Signature _____

Signed by _____

Title _____

Please Print Name

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IDAHO DEPARTMENT OF LANDS

STANDARD INFORMATION

ADDENDA

It will be the respondent's responsibility to check for any addenda prior to submitting a quotation. In the event it becomes necessary to revise any part of the solicitation documents, addenda will be made available. Information given to a respondent will be available to all other respondents if such information is necessary for purposes of submitting a quotation or if failure to give such information would be prejudicial to uninformed respondents.

BURDEN OF PROOF

ANY VARIATIONS of brand names or deviations from the specifications MUST BE CLEARLY STATED. It shall be the responsibility and burden of the submitting vendor to furnish the State WITH ITS ORIGINAL SUBMISSION sufficient data to determine if the goods or services offered conform to the specifications.

ORAL INFORMATION

The State will not be responsible for any verbal or oral information regarding a quote.

DISQUALIFICATION AND AWARD INFORMATION

The state reserves the right to make reasonable inquiry to determine the responsibility of a contractor. Such requests may include but not be limited to financial statements, credit ratings, statements of experience and past performance, references, etc. Successful contractors must show to the satisfaction of the Idaho Department of Lands that they have sufficient equipment and work crews to complete the work contracted by the time specified. The unreasonable failure of a contractor to promptly supply information in connection with such a request is reason for disqualification. Except as otherwise provided by law, information furnished by the contractor pursuant to this provision may not be disclosed outside the Idaho Department of Lands without prior written consent of the Contractor. Disqualification of a high ranking contractor may be pursued when their reputation, experience or references are such as to create a doubt about satisfactory job completion or if the price quotes are considerably below Department estimates and the other quotes. The purchasing agent will contact the contractor and request that they disqualify themselves by withdrawing in writing. If the contractor refuses to withdraw, the purchasing agent may notify the contractor in writing or email that the Department will not offer the contractor a contract and proceed with an award to the next responsible contractor.

PARTNERSHIPS

Contractors responding as partners must furnish the Idaho Department of Lands the name of the partnership, names of the partners, and the partnership's federal taxpayer ID number. All payments will be made to the partnership.

INTERNAL REVENUE SERVICES REPORTING REQUIREMENT

IRS rules and regulations require employers to submit a miscellaneous income form (IRS form 1099) for all contractual persons who receive \$600 or more in a calendar year. Incorporated firms are exempt from this reporting requirement. The contractor's taxpayer identification number (Social Security or employer number) must be listed on the signature page of the contract.

PUBLIC RECORDS

The Idaho Public Records Law, Idaho Code Sections 9-337 through 9-348, allows the open inspection and copying of public records. Public records include any writing containing information relating to the conduct or administration of the public's business prepared, owned, used, or retained by a state or local agency regardless of the physical form or character. ALL, OR MOST (there are exceptions), OF THE INFORMATION CONTAINED IN YOUR RESPONSE TO THE STATE'S SOLICITATION WILL BE A PUBLIC RECORD SUBJECT TO DISCLOSURE UNDER THE PUBLIC RECORDS LAW.

WORKERS COMPENSATION INSURANCE

All persons working for the State under any contract of hire, expressed or implied, must be covered by worker's compensation insurance. (Reference Title 72, Idaho Code).

Contractors may not sign an affidavit or waiver of any kind declaring themselves exempt from coverage.

Any contractor who hires employees to accomplish the contracted work must provide a certificate of worker's compensation insurance.

The Department of Lands may pay worker's compensation insurance premiums on behalf of the contractor if the contractor has no employees and, except for the provisions in this contract, is not otherwise required to carry worker's compensation insurance. The contractor must indicate they do not carry worker's compensation by checking the appropriate statement on the response form. The cost of the premium will be tallied in the quote evaluation so that a contractor paying worker's compensation premiums is not penalized. In no event will the premium be paid to the contractor.

Example: Contractor #1 quote total = \$8,000.00
Contractor does not provide worker's compensation

Contractor #2 quote total = \$9,000.00
Contractor provides worker's compensation

The following procedure will be used to evaluate the quote without worker's compensation.

(EXAMPLE – ALL RATES ARE EXAMPLES ONLY)

Quote times applicable worker's compensation rate times current Department of Lands' percentage reduction rate added to quote.

<u>Contractor #1</u>	<u>Worker's Class Rate</u>		<u>Reduction Rate</u>	<u>Premium Amt.</u>
\$8,000.00	x rate \$31.00 per/100	x	67.5	= \$1,674.00
			Plus quote amount	+8,000.00
			Total quote price	\$9,674.00

Contractor #2 would be the successful respondent and furnish a certificate to the Idaho Department. of Lands

PREFERENCES

Section 67-2349, Idaho Code, requires application of a preference in determining which contractor submitted the lowest responsible quote. If the contractor who submitted the lowest quote is domiciled in a state which has a preference law that penalizes Idaho domiciled contractors, then the State must apply a preference. The penalty applied to out-of-state contractors competing against Idaho contractors is determined by the penalty applied by the contractor's domiciliary state to its out-of-state contractors.

In determining domicile, the following "rule of thumb" will be used: Corporations – the state in which the corporation is chartered or incorporated; Sole proprietor or partnership – the state in which the permanent headquarters of the business is located.

A contractor domiciled outside the boundaries of the state of Idaho may be considered as an Idaho domiciled contractor provided that there exists for a period of one year preceding the date of the quote a significant Idaho economic presence as defined herein. A significant Idaho economic presence shall consist of the following: (a) That the contractor maintain in Idaho fully staffed offices, or fully staffed sales offices or divisions, or fully staffed sales outlets, or manufacturing facilities, or warehouses or other necessary related property; and (b) if a corporation, that it be registered and licensed to do business in the state of Idaho with the office of the secretary of state.

REJECTION OF QUOTES AND CANCELLATION OF QUOTE SOLICITATION

Prior to the issuance of a contract, the State shall have the right to accept or reject all or any part of a quote when: (i) it is in the best interests of the State of Idaho; (ii) the quote does not meet the minimum quote specifications; (iii) the quote is not the lowest responsible quote; (iv) a finding is made based upon available evidence that a respondent is not responsible or is otherwise incapable of meeting specifications or providing an assurance of ability to fulfill contract requirements; or (v) the item offered deviates to a major

degree from the quote specifications, as determined by the State (minor deviations, as determined by the State, may be accepted as substantially meeting the quote requirements of the State of Idaho). Deviations will be considered major when such deviations appear to frustrate the competitive solicitation process or provide a respondent an unfair advantage. Prior to the issuance of a contract, the State shall have the right to reject all quotations or to cancel a solicitation or request for quotations. Cancellation may be for reasons that include but are not limited to: (i) inadequate or ambiguous specifications; (ii) specifications have been revised; (iii) property is no longer required; (iv) there is a change in requirements; (v) all quotes are deemed unreasonable or sufficient funds are not available; (vi) quotes were not independently arrived at or were submitted in bad faith; (vii) it is determined that all requirements of the solicitation process were not met; (viii) insufficient competition; or (ix) it is in the best interests of the state of Idaho.

AWARD PROCEDURES

For contracts with a total solicitation value of \$75,000 or less, the State will email a contract award to the successful respondent(s) within five (5) working days following the solicitation closure date.

For contracts with a total solicitation value of more than \$75,000, the State will notify all respondents within five (5) working days following the solicitation closure, by mail and/or email, of its intent to award a contract and the party(ies) to whom the contract will be awarded. After elapse of the five (5) day appeal period set forth in Idaho Code (see Administrative Appeals below), and there being no appeals received, the State will award a contract to the successful respondent(s).

Respondents to whom a contract has been awarded will have fourteen (14) calendar days from the mailing date of the award notice to return to the State a signed copy of the contract along with the required bonding and certificates of insurance. If the State does not receive such documents within the specified time period, the State may declare, at its sole discretion, that all respondent's rights to the contract are forfeited, and the State may proceed without further delay or notice to award the contract to the next low respondent.

ADMINISTRATIVE APPEALS

The law the State follows in administrative appeals is set forth at Section 67-5733, Idaho Code.

STATE OF IDAHO
DEPARTMENT OF LANDS



STOCKING SURVEY

CONTRACT NO. 10-219-310053

INITIAL BACKSIDE STOCKING

**STATE OF IDAHO
DEPARTMENT OF LANDS
STOCKING SURVEY CONTRACT**

CONTRACT NO.: 10-219-310053

Table of Contents

	<u>Page</u>
DIVISION A - GENERAL.....	1
1. Definitions and Terms	1
2. Contract Relationship.....	2
3. Contractor Responsibility	2
4. Subcontracting	2
5. Antidiscrimination/Equal Employment Opportunity Clause	2
6. Workman's Compensation Insurance	2
7. Taxes	3
8. Licenses, Permits & Fees	3
9. State of Idaho Minimum Wage Law	3
10. Affidavit of Compliance	3
11. Save Harmless	3
12. Officials, Agents and Employees of the State not Personally Liable	3
13. Risk of Loss	3
14. Assignments.....	3
15. Prohibited Contracts	3
16. Government Regulations	4
17. Safety Information	4
18. Use of the State of Idaho Name	4
19. Contract Termination	4
20. Appropriation by Legislature Required.....	5
21. Force Majeure	5
22. Governing Law	5

Table of Contents (continued)

	<u>Page</u>
23. Entire Agreement	5
24. Modification	5
25. Performance Bonds	5
26. Items to be Furnished by the Contractor	6
27. Items to be Furnished by the State	6
28. Trash Cleanup.....	7
29. Camping on State Land	7
30. Fire Prevention Responsibilities	7
31. Contract Period	7
32. Performance of the Contractor	7
33. Inspections and Payment	7
34. Contract Administration	8
35. Work Progress and Contract Performance	8
36. Payment and Compliance	8
DIVISION B - TECHNICAL SPECIFICATIONS	9
1. Stocking Survey Requirements.....	9
2. Submission of Completed Work.....	10
3. Inspection and Acceptance	10
Signature Page	11
Schedule A.....	Attachment 1
Notes to the Forester Sheet.....	Attachment A
Cruise Procedure Codes and Guidelines.....	Attachment B
Excel Field Form - Example	Attachment C
Project Description and Maps	Attached

**STATE OF IDAHO
DEPARTMENT OF LANDS**

**STOCKING SURVEY CONTRACT
CONTRACT NO: 10-219-310053**

DIVISION A - GENERAL

1. DEFINITIONS AND TERMS

1. Attachments: The attached project descriptions, maps, and other labeled references are a part of this contract, and any special terms therein are binding upon all parties.
2. State Department of Lands or IDL: Acceptable and legal references to the Idaho Department of Lands for the purposes of this contract.
3. Clumpiness Index (Clumpiness Factor): The average portion of an acre that is stocked with trees expressed in percent.
4. Contract Supervisor:: The designated department representative who will provide on-the-ground administration of this contract.
5. Contractor Representative: The Contractor's representative, authorized in writing to act on the Contractor's behalf, and to be present on the area at nearly all times. This person must be able to speak English fluently for satisfactory communication with the Contract Supervisor.
6. Purchasing Agent: The contracting officer for the Department of Lands.
7. Services: Includes services performed, workmanship, and materials furnished or utilized in the performance of services.
8. Advanced Tree: Seedlings older than 5 (five) years old.
9. Crew: May be one or more individual(s) performing work under this contract.
10. Established Seedling: Seedlings 2 through 5 years old. Three natural seedlings in their first growing season will be considered as one established seedling.
11. Ground Cover Type: The present type of vegetation existing on an unit (forbs, grasses, brush, etc.), usually reflecting a type of past disturbance.
12. Habitat Type: An area of land capable of producing similar plant communities at the climax stage of plant succession.
13. Leader Height: The height of a tree leader in relation to the existing brush cover.
14. Live Tree: Trees which are vigorous and green in color.
15. Sapling: Trees between 0.1 dbh and shorter than 4.5 feet to trees 2.9 inches dbh.
16. Seedling: Trees less than 4.5 feet tall.
17. Slope: The natural incline of the ground, usually measured in percent slope (vertical rise divided by horizontal distance).
18. Stressed Tree: Trees which are not vigorous and green in color (chlorotic).
19. Subunit: Any contiguous area five (5) acres or larger.
20. Unit: The units, for purposes of this contract, are shown on the project map(s).

2. CONTRACT RELATIONSHIP

It is distinctly and particularly understood and agreed between the parties that this contract does not create an employer/employee relationship. Furthermore, the State of Idaho is in no way associated or otherwise connected with the performance of any service under this contract on the part of the Contractor or with the employment of labor or the incurring of expenses by the Contractor. Said Contractor is an independent contractor in the performance of each and every part of this contract, and solely and personally liable for all labor, taxes, insurance, required bonding and other expenses, except as specifically stated herein, and for any and all damages in connection with the operation of this contract, whether it may be for personal injuries or damages of any other kind. The Contractor shall exonerate, indemnify and hold the State of Idaho harmless from and against and assume full responsibility for payment of all federal, state and local taxes or contributions imposed or required under unemployment insurance, social security, and income tax laws with respect to the Contractor or Contractor's employees engaged in performance under this contract.

3. CONTRACTOR RESPONSIBILITY

The Contractor shall be required to assume responsibility for production and delivery of all material and services included in this contract, whether or not the Contractor is the manufacturer or producer of such material or services. Further, the Contractor will be the sole point of contact on contractual matters, including payment of charges resulting from the use or purchase of goods or services.

4. SUBCONTRACTING

Unless otherwise allowed by the State in this contract, the Contractor shall not, without written approval from the State, enter into any subcontract relating to the performance of this contract or any part thereof. Approval by the State of Contractor's request to subcontract or acceptance of or payment for subcontracted work by the State shall not in any way relieve the Contractor of responsibility for the professional and technical accuracy and adequacy of the work. The Contractor shall be and remain liable for all damages to the State caused by negligent performance or non-performance of work under the contract by Contractor's subcontractor or its sub-subcontractor.

5. ANTIDISCRIMINATION/EQUAL EMPLOYMENT OPPORTUNITY CLAUSE

Acceptance of this contract binds the Contractor to the terms and conditions of Section 601, Title VI, Civil Rights Act of 1964 in that "No person in the United States shall, on the grounds of race, color, national origin, or sex, be excluded from participation in, be denied the benefits of, or be subject to discrimination under any program or activity receiving Federal financial assistance." In addition, "No other wise qualified handicapped individual in the United States shall, solely by reason of his handicap, be excluded from the participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving federal financial assistance" (Section 504 of the Rehabilitation Act of 1973). Furthermore, for contracts involving federal funds, the applicable provisions and requirements of Executive Order 11246 as amended, Section 402 of the Vietnam Era Veterans Readjustment Assistance Act of 1974, Section 701 of Title VII of the Civil Rights Act of 1964, the Age Discrimination in Employment Act of 1967 (ADEA), 29 USC Sections 621, et seq., the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, U.S. Department of Interior regulations at 43 CFR Part 17, and the Americans with Disabilities Action of 1990, are also incorporated into this contract. The Contractor must include this provision in every subcontract relating to purchases by the State to insure that subcontractors and vendors are bound by this provision.

6. WORKMAN'S COMPENSATION INSURANCE

The Contractor will maintain and pay for any applicable workman's compensation insurance and will provide a certificate of same. If the Contractor does not have employees and is not otherwise required to carry workman's compensation insurance under the laws of the State of Idaho, the Idaho Department of Lands will furnish workman's compensation insurance for work done under this contract unless otherwise specified in the contract. The cost to the Idaho Department of Lands for furnishing such workman's compensation insurance will be added to the Contractor's quote price for purposes of evaluation only. In no event will said amount be paid to the Contractor.

7. TAXES

If the Contractor is required to pay any taxes incurred as a result of doing business with the State of Idaho, it shall be solely and absolutely responsible for the payment of those taxes.

8. LICENSES, PERMITS & FEES

The Contractor shall, without additional expense to the State, obtain all required licenses and permits and pay all fees necessary for executing provisions of this contract unless specifically stated otherwise herein.

9. STATE OF IDAHO MINIMUM WAGE LAW

It will be the responsibility of the Contractor to fully comply with Section 44-1502, Idaho Code, regarding minimum wage.

10. AFFIDAVIT OF COMPLIANCE

The Contractor, upon completion of the project work, must furnish the Idaho Department of Lands with a notarized affidavit stating that:

- a. At least the minimum Idaho wage was paid.
- b. There was compliance with all labor laws.
- c. All debts incurred as a result of this contract were paid.
- d. Any further claims against the State of Idaho under this contract are relinquished, pending payment for services rendered.

11. SAVE HARMLESS

Contractor shall indemnify and hold harmless the State of Idaho from any and all liability, claims, damages, costs, expenses, and actions, including reasonable attorney fees, caused by or that arise from the negligent or wrongful acts or omissions of the Contractor, its employees, agents, or subcontractors under this contract that cause death or injury or damage to property or arising out of a failure to comply with any state or federal statute, law, regulation or act.

12. OFFICIALS, AGENTS AND EMPLOYEES OF THE STATE NOT PERSONALLY LIABLE

In no event shall any official, officer, employee or agent of the State of Idaho be in any way personally liable or responsible for any covenant or agreement herein contained whether expressed or implied, nor for any statement, representation or warranty made herein or in any connection with this contract. This section shall not apply to any remedies in law or at equity against any person or entity that exist by reason of fraud, misrepresentation or outside the terms of this contract.

13. RISK OF LOSS

Risk of loss and responsibility and liability for loss or damage will remain with Contractor until final inspection and acceptance when responsibility will pass to the State except as to latent defects, fraud and Contractor's warranty obligations. Such loss, injury or destruction shall not release the Contractor from any obligation under this Contract. If installation is requested by the State or specified in the State's project documents, pricing shall include all charges associated with a complete installation at the location specified.

14. ASSIGNMENTS

The Contractor shall not assign a right or delegate a duty under this contract without the prior written consent of the State.

15. PROHIBITED CONTRACTS

No member of the legislature or officer or employee of any branch of the state government shall directly himself, or by any other person execute, hold or enjoy, in whole or in part, any contract or agreement made or entered into by or on behalf of the state of Idaho, if made by, through or on behalf of the department in which he is an officer or employee or if made by, through or on behalf of any other department unless the same are made after competitive quotations. (Idaho Code Section 67-5726(1)).

16. GOVERNMENT REGULATIONS

- a. The Contractor shall abide by and comply with all laws and regulations of the United States, the State of Idaho including the Forest Practices Act (Title 38, Chapters 1 and 13, Idaho Code), counties or other governmental jurisdictions wherein the work is executed insofar as they affect this contract. The Contractor will make all payments, contributions, remittances, and all reports and statements required under said laws.
- b. Contractor guarantees that all items meet or exceed those requirements and guidelines established by the Occupational Safety and Health Act, Consumer Product Safety Council, Environmental Protection Agency, or other regulatory agencies.

17. SAFETY INFORMATION

- a. The Contractor assumes full responsibility for the safety of his employees, equipment and supplies.
- b. All chemicals, equipment and materials proposed and/or used in the performance of this Contract must conform to the standards required by the William-Steiger Occupational Safety and Health Act of 1970. Contractor must furnish all Material Safety Data Sheets (MSDS) for any regulated chemicals, equipment or hazardous materials at the time of delivery.

18. USE OF THE STATE OF IDAHO NAME

Contractor agrees that it will not, prior to, in the course of, or after performance under this contract, use the State's name in any advertising or promotional media as a customer or client of Contractor without the prior written consent of the State.

19. CONTRACT TERMINATION

- a. The State may terminate this contract, in whole or part, by written notice delivered to either the Contractor or his representative in any one of the following circumstances. Termination by the State for cause may result in forfeiture of Contractor's bond.
 - (1) Failure of the Contractor to perform any of the provisions of this contract.
 - (2) Failure of the Contractor to correct unsatisfactory performance or work immediately after it has been brought to his attention.
 - (3) Failure of the Contractor to make satisfactory progress in order to be able to complete the work within the contract period.
 - (4) The State may terminate this contract at any time for the convenience of the State upon ten (10) calendar days' written notice specifying the date of termination.
- b. Upon termination, the Contractor shall:
 - (1) Promptly discontinue performing under the contract, unless the termination notice directs otherwise.
 - (2) Promptly return to the State control of the properties and any personal property provided by the State pursuant to the contract.
 - (3) Deliver or otherwise make available to the State all data, reports, estimates, summaries and such other information and materials as may have been accumulated by Contractor in performing duties under the contract, whether completed or in process.
- c. Upon termination, the obligations and liabilities of the parties shall cease, except that the obligations or liabilities incurred prior to the termination date shall be honored. This paragraph shall not be interpreted to place any requirement on the State to accept or make payment to the Contractor for any unsatisfactory work.
- d. If the State terminates the contract, the State may take over the work and may award another party a contract to complete the work as stated by this contract.

- e. In the event of termination, the State shall pay all sums still due Contractor through the effective date of termination in full within thirty (30) days of a written demand and receipt of all items necessary from Contractor to allow the State to make payment.

20. APPROPRIATION BY LEGISLATURE REQUIRED

It is understood and agreed that the State is a government entity and this contract shall in no way or manner be construed so as to bind or obligate the state of Idaho beyond the term of any particular appropriation of funds by the State's Legislature as may exist from time to time. The State reserves the right to terminate this contract in whole or in part (or any order placed under it) if, in its judgment, the Legislature of the state of Idaho fails, neglects, or refuses to appropriate sufficient funds as may be required for the State to continue such payments. All affected future rights and liabilities of the parties hereto shall thereupon cease within ten (10) calendar days after notice to the Contractor. It is understood and agreed that the State's payments herein provided for shall be paid from Idaho State Legislative appropriations and, in some instances, direct federal funding.

21. FORCE MAJEURE

Neither party shall be liable or deemed to be in default for any Force Majeure delay in shipment or performance occasioned by unforeseeable causes beyond the control and without the fault or negligence of the parties, including, but not restricted to, acts of God or the public enemy, fires, floods, epidemics, quarantine, restrictions, strikes, freight embargoes, unusually severe weather, provided that in all cases the Contractor shall notify the State promptly in writing of any cause for delay and the State concurs that the delay was beyond the control and without the fault or negligence of the Contractor. If reasonably possible, the Contractor shall make every reasonable effort to complete performance as soon as possible.

22. GOVERNING LAW

This contract shall be construed in accordance with, and governed by the laws of the State of Idaho.

23. ENTIRE AGREEMENT

This contract, with the State's Invitation to Request for Proposal, or Request for Quotation, including any addenda (such deemed incorporated by reference) and the vendor's response, to the extent it is not in conflict with the specifications or the States terms and conditions (such document deemed incorporated by reference), constitute the entire agreement between the parties with respect to the subject matter hereof and shall supersede all previous proposals, or quotations, both oral and written, discussions, representations, commitments, and all other communications between the parties. Where terms and conditions specified in the State's documents or the Contractor's response differ from those specifically stated in this contract, the terms and conditions of this contract shall apply.

24. MODIFICATION

This contract may not be released, discharged, changed or modified except by an instrument in writing signed by a duly authorized representative of each of the parties.

25. PERFORMANCE BONDS

To guarantee full and faithful compliance with the terms and conditions of the contract, a performance bond in the amount of ten percent (10%) of the total contract price will be required on all contracts with a total contract value of \$10,000 or more. The performance bond will be held until all project work has been satisfactorily completed and the affidavit of compliance has been received.

The performance bond will be in the form of cash, by certified check, or money order made payable to the Treasurer, State of Idaho. The performance bond must be submitted to the State prior to the execution of the contract by the Idaho Department of Lands. In lieu of a cash bond, contractors may submit a Certificate of Deposit or Letter of Credit in a form that is acceptable to the State. Such documents will be subject to approval by the Idaho Department of Lands prior to the execution of the contract.

26. ITEMS TO BE FURNISHED BY THE CONTRACTOR

- a. The Contractor will furnish all labor, equipment, supervision, transportation, materials, flagging, and incidentals necessary to satisfactorily complete this contract including all safety equipment required by current laws and regulations. The Contractor will furnish an address and telephone number where he can be contacted with a twenty-four (24) hour period
- b. The Contractor will provide electronic field data recorders approved by the State. The recorders must be able to run programs that are compatible with the Department's excel stand data form. A complete copy of the electronic data collected will be given to the Department in an acceptable format before final payment is made.
- c. Field Supervisor Requirements:
Only persons who are performing stand cruising work under the contract may be designated as the Field Supervisor. The Field Supervisor will act as the Representative of the Contractor (Contractor Representative), and is responsible for data transfers, internal quality control, and the actions of the crew. The Field Supervisor shall be present during all phases of the field operations.

The Field Supervisor must speak intelligible English, and have sufficient experience as determined by the department. General minimum requirements are a two-year Associate Degree in Natural Resources/Forestry or completion of a formal training session in Timber Cruising/Variable Plot Sampling and/or more than 5 seasons of timber cruising
- d. Crew Requirements:
Crew member(s) must have sufficient experience as determined by the IDL. General minimum requirement is 1 season of related work required in the project description and 2 seasons cruising experience in the Western United States, preferable in the Inland Northwest. A season constitutes at least three (3) months of full-time work.
- e. All persons who are performing stand survey work under the contract shall have the functionality to use tools and apply abilities necessary for variable and fixed plot timber cruising. The functional abilities and skills required include but are not limited to:
 1. Ability to read maps and use a hand held GPS receiver.
 2. Ability to use a Relaskop, compass, range finder, measuring tape and apply field techniques of the various cruising methods to be used.
 3. Ability to accurately record field data using an electronic field data recorder.
 4. Ability to correctly identify tree, shrub, forb and grass vegetation species common to the Inland Northwest to identify the appropriate forest habitat type(s).
 5. Ability to correctly identify forest insects and disease commonly damaging to conifers in the Inland Northwest.

27. ITEMS TO BE FURNISHED BY THE STATE:

- a. A Contract Supervisor to acquaint the Contractor with each unit to be worked on and to ensure contract compliance.
- b. Copies of state administrative maps, and project map(s) of the contract area.
- c. Plot cards; "Notes to the Forester" cards.
- d. Point shape file with plot locations

- e. Plot data forms in excel format.
- f. Copies of IDL SBFI Timber Cruising Field Manual.
- g. Copies of Forest Habitat Types of Northern Idaho: A Second Approximation.
- h. Other items as per the project description(s).

28. TRASH CLEANUP

The Contractor shall be responsible for picking up and properly disposing of all trash generated as a result of this contract at the end of each day. This includes any camps made by Contractor personnel. Cleanup shall be done to the satisfaction of the Contract Supervisor and covered by the Contractor's performance bond.

29. CAMPING ON STATE LAND

Contractor personnel may, with written approval from the Idaho Department of Lands, camp during the contract period on State land. Such camping will be at the Contractor's own risk. Any camps will be made according to conditions set forth by the Idaho Department of Lands Supervisory Area, be in compliance with State Land Board rules and regulations for fire prevention.

30. FIRE PREVENTION RESPONSIBILITIES

- a. The Contractor will adhere to the State Land Board rules and regulations which set forth fire prevention safety precautions for woods operations. Such rules and regulations are available at any Idaho Department of Lands office. These rules and regulations will be outlined during the pre-work conference with the Contractor.
- b. The Contractor shall not build any open fires at any time of the year on the contract area without first obtaining written permission from the State.
- c. Fire spreading through the contract area which is a result of the Contractor's operation or employees' actions shall be the liability of the Contractor.

31. CONTRACT PERIOD

This contract will become effective once signed by all parties. Approximate starting and completion dates are listed in the attached project description(s). The contract will terminate upon completion and inspection of all contracted projects unless terminated earlier by the State under any of the provisions of this contract.

32. PERFORMANCE OF THE CONTRACTOR

Failure of the Contractor to commence operations as mutually agreed upon by the Contractor and the State to maintain the required production rate, to complete operations as prescribed herein, or failure to meet other terms of the contract, shall give the Idaho Department of Lands the right to cancel the contract as provided for in this contract. Such cancellation shall not affect any rights of the State of Idaho for recovery of damages from any payment for services due Contractor or from the bond hereinbefore provided for in any action at law or in equity.

33. INSPECTIONS AND PAYMENT

Inspection reports will be furnished to the Contractor by the Contract Supervisor so that any deficiencies may be corrected as contract work progresses. The Contractor shall submit no less than five (5) and no more than ten (10) completed inventoried stands at one time for inspection purposes.

Payment schedules are specified in each attached project description. Payment to be made at the rate(s) set forth in Schedule A attached hereto.

34. CONTRACT ADMINISTRATION

- a. The Contract Supervisor will administer the contract as required in all specifications.
- b. Disputes between the Contract Supervisor and the Contractor will be resolved by the State.
- c. The Contract Supervisor has the following authority in addition to that delegated in other portions of the contract:
 - (1) Decide questions of fact arising in regard to quality and acceptability of equipment to be used, materials furnished, and all work performed.
 - (2) Make recommendations for payment.

35. WORK PROGRESS AND CONTRACT PERFORMANCE

- a. Before starting work, the Contractor shall contact the respective Supervisory Area in which the project(s) is located to discuss the contract terms, work performance requirements, and tentative work schedule.
- b. The Contractor shall begin work as specified by the Contract Supervisor at the pre-work conference. Units must be satisfactorily completed before work on other units may start.
- c. The State may terminate this contract, in whole or in part, by written notice in any one of the following circumstances.
 - (1) Failure of the Contractor to perform any of the provisions of this contract.
 - (2) Failure of the Contractor to correct unsatisfactory performance or work after it has been brought to his attention.
 - (3) Failure of the Contractor to make satisfactory progress in order to be able to complete the work within the contract period.
- d. The Contractor's performance bond may be forfeited as liquidated damages if the State elects to terminate this contract under any of the provisions stated under this contract.

36. PAYMENT AND COMPLIANCE

- a. The minimum acceptable standard for satisfactory work is ninety percent (90%) for each unit. If the percentage falls below ninety percent (90%), the State will inform the Contractor in writing.

Percent satisfactory will be computed in the following manner:

$$\frac{\text{satisfactorily inspected plots}}{\text{number of inspection plots}} \times 100 = \% \text{ satisfactory}$$

- b. If work on a unit or part thereof fails to meet contract specifications, payment will be withheld on the unsatisfactory unit(s). The Contractor shall, at no additional expense to the State, resurvey unsatisfactory units or parts thereof. In the event the contract is terminated for unsatisfactory performance, payment will be made for work satisfactorily completed.
- c. If the original inspection results are unacceptable to the Contractor on either a completed or partially completed unit, one reinspection of the inspection plots may be requested in writing. The Contract Supervisor and Contractor Representative shall together revisit the inspection plots to determine the accuracy of the inspected plots. The results of the second inspection will be used in determining payment. If the second inspection results fall below the acceptable limit, the Contractor shall pay the cost of the reinspection.

DIVISION B - TECHNICAL SPECIFICATIONS

Unless stated otherwise, all procedures and standards shall conform to those commonly used in the forestry profession, the Idaho Department of Lands Stand Based Forest Inventory Timber Cruising Field Manual, and as directed by the State.

1. STOCKING SURVEY REQUIREMENTS

a. PROCEDURES AND STANDARDS

(1) Survey Lines:

Starting points for each survey line shall be flagged on the ground. The survey line number, direction, date, and Contractor initials shall be marked on this flagging with permanent waterproof black ink.

All survey lines will be run on cardinal directions (N, E, S, W) unless otherwise directed by the Contract Supervisor.

(2) Plot Establishment:

i. Plots will be established on a two and one-half (2½) chain (165 feet) by two (2) chain (132 feet) grid (two plots per acre). A GPS point shape file will be provided by the State.

ii. The plot center shall be marked as specified in the attached project description. If not specified, then the minimum is with a one-inch (1") diameter by two-foot (2') long stake or branch. Plot center is where the stake enters the ground. A double flag shall be hung over the plot and the following information should be recorded on the flag in indelible ink. Flag color will be approved by the Contract Supervisor:

Stand #

Plot #

Date

Cruiser Initials

Direction and Distance to the Next Plot

iii. Plot size shall be 1/250 acre circular fixed plot (7.45 foot radius horizontal slope).

iv. No road plots shall be taken. Plots will be located so that right-of-way areas will not influence total plot tree count

v. All plot centers shall be located so that plots will not fall outside the project boundary.

vi. Flagging will be hung at the road edge whenever a survey line crosses a road. The flagging will be marked to indicate direction of travel, distance to next plot, and plot number.

(3) Data Collection and Recording:

i. All information will be recorded on electronic field data recorders and software provided by the Contractor. The electronic field data recorders and software shall be suitable to use with the data recording application provided by the Idaho Department of Lands. (Excel) The Idaho Department of Lands may approve the use of data recording application(s) other than that stated. The Idaho Department of Lands approval of other data recording application(s) is at its sole discretion and shall occur prior to award of the contract. The software shall be formatted and organized to conform to the IDL's Stand Based Forest Inventory Data Card, as per the Contract Supervisor. A paper copy of the excel form is attached.

- ii. Stand Data and Plot Data outlined in the Idaho Department of Lands Stand Based Forest Inventory Timber Cruising Field Manual will not be collected. Data collected at each plot will include the following along with any additional information specified in the project description or on the Notes to Forester Pages as determined by the Contract Supervisor.

- a. Stand #
- b. Date
- c. Cruiser Initials
- d. Plot Number
- e. Tally – Number of trees – Max 10 trees by species/diameter class
- f. Species
- g. Component Code –Tree Product and Vigor Class
- h. DBH Class
- i. Total Height of Tree – Average by species/diameter class
- j. Crown Ratio
- k. Competition
- l. Damage Code
- m. Plantable/Non Plantable factors
- n. Stocked – yes/no

- iii. The Contractor will be required to re-survey plots where recorded information is missing and/or deficient as determined by the Contract Supervisor.

2. SUBMISSION OF COMPLETED WORK

The Contractor will be required to submit completed “batches” to the Contract Supervisor. No partially completed units may be submitted. A “batch” is defined as no less than five (5) and no more than ten (10) completed units. The following documents will also be submitted with the electronic copies of the plot data form..

- a. Copies of all “Foresters Notes” (these will be sent to the Contract Supervisor with the “batch” of completed units).

3. INSPECTION AND ACCEPTANCE

Satisfactory establishment and measurement of survey plots including the recording of survey line and plot data as specified in the project description(s) and the Idaho Department of Lands Stand Based Forest Inventory Timber Cruising Field Manual. A minimum of two (2) plots every ten (10) acres will be inspected. At each inspection plot, the Contract Supervisor will determine if the recorded data is accurate and correct as follows:

- a. Correct Stand and Plot Data recorded
- b. Correct tree species and correct tally number by species.
- c. Correct tree heights and diameter class recorded
- d. Correct live crown percentage and tree vigor code recorded
- e. Notes to the Forester have been filled out satisfactorily.
- f. Satisfactory marking and flagging of survey lines and survey plots as specified in the project description.

IN WITNESS WHEREOF, the parties have caused this contract to be executed effective this _____ day of _____, 20____, in Boise, Idaho.

IDAHO DEPARTMENT OF LANDS

CONTRACTOR

By_____

By_____

Date_____

Date_____

Contractor's Social Security
or Employer Number:

Taxpayer ID# (TIN)

Contractor's Phone/Contact No.

_____email if available

Attachments:

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Page _____ of _____

IDL STAND BASED FOREST INVENTORY - NOTES TO THE FORESTER

Stand # _____	Cruiser: _____	BAF: _____
	Date: _____	Fixed Plot Size: _____

Notes to the Forester						
Stand Structure:	Single Storied	<input type="text"/>	Two-Storied	<input type="text"/>	Multi-Storied	<input type="text"/>
	Large Mature	<input type="text"/>	Second Growth	<input type="text"/>	Regeneration	<input type="text"/>
Approximate Stand Age:	Overstory	<input type="text"/>	Understory	<input type="text"/>		
Stand Origin:	Natural	<input type="text"/>	Plantation	<input type="text"/>	Fire	<input type="text"/>
Insect and Disease:		Light	Moderate	Severe		
	Root Rot	<input type="text"/>	<input type="text"/>	<input type="text"/>		
	Indian Paint Fungus	<input type="text"/>	<input type="text"/>	<input type="text"/>		
	Heart Rot	<input type="text"/>	<input type="text"/>	<input type="text"/>		
	Fir Engraver	<input type="text"/>	<input type="text"/>	<input type="text"/>		
	Western Pine Beetle	<input type="text"/>	<input type="text"/>	<input type="text"/>		
	Mountain Pine Beetle	<input type="text"/>	<input type="text"/>	<input type="text"/>		
	Douglas-fir Beetle	<input type="text"/>	<input type="text"/>	<input type="text"/>		
	Dwarf Mistletoe	<input type="text"/>	<input type="text"/>	<input type="text"/>		
Stand Specifications (Overall status of plantation, veg competition, future needs):						

Plot	Notes

Cruising Procedures/Codes/Guidelines

The following information is from the Idaho Department of Lands Stand Based Forest Inventory System Timber Cruising Field Manual. The entire document is available upon request. The procedures outlined below will be followed when planning and establishing cruise plots on any Forest Management Project. Final approval of cruise design and procedures by the Contract Supervisor is required.

A. Cruise Data Items

Unless otherwise indicated, all data will be collected using instruments that reflect English units. Other data to be collected includes, the cruise map, descriptive notes about the stand for the forester, and the GPS location for each plot.

1. Species Codes

The species codes in Table 4 will be used at all times. An asterisk indicates the species is a suitable site index species.

Table 4. Legal species codes.

CODE	Common Name	SI?
DF	Douglas-fir	*
PP	Ponderosa pine	*
WP	Western white pine	*
LP	Lodgepole pine	*
GF	Grand fir	*
AF	Subalpine fir	
ES	Engelmann spruce	*
WH	Western hemlock	
CE	Western redcedar	
WL	Western larch	*
JU	Juniper	
PI	Pinyon	
WB	Whitebark pine	
CO	Other conifer	
QA	Quaking aspen	*
HA	Other Hardwood	

2. Large Tree Data

Data will be collected from live and salvageable dead commercial and non-commercial trees greater than 5.49" DBH. See Table 5.

Table 5. Large tree data to be collected

Item	Measure Tree Data	Count Tree Data	Notes
Species	Every tree	Every tree	2-character code (table 4)
DBH	Every tree	Estimate every tree	Nearest 1/10 th inch measure tree: Nearest 1 inch estimated count tree
Tree product/vigor	Every tree	Every tree	See tables B10 and B11; codes for product and vigor will be combined into a 2-character code
Total height	Every Tree	N/A	Nearest foot
Height/diameter for taper	NA*	NA	*May be used if needed due to irregular stand growth.
Breast height age for Site Index est.	1 tree/5 plots; minimum	1 tree/5 plots; minimum	Suitable site trees (Table B6) – free to grow, dominant and codominant; \geq 40% crown on

Item	Measure Tree Data	Count Tree Data	Notes
	3/stand	3/stand	tolerants, otherwise $\geq 50\%$ crown.
Live crown ratio %	Every Tree	N/A	
% defect and breakage deduction by 16' logs	Every Tree	N/A*	*A cull for count trees may be determined if the tree is a minor species in the stand.

3. Regeneration (Small Tree) Data

Data will be collected on live commercial and non-commercial trees less than 5.50" DBH, one foot tall and greater on the plot. Data for trees less than one foot tall may be required in some stands (stocking surveys). The following data will be collected:

Species
Diameter Class (see Table 6)
Tally by Diameter Class/Species
Total Height (nearest foot)
Tree Product/Tree Vigor Code (see Tables 7 and 8)

In young or patchy stands there is a possibility of seeing hundreds of tally trees on a single plot. In these cases it is acceptable to record the count of tally trees by species and diameter class, and an average total height if it is representative of those trees in the class. It is not necessary to record a tree count higher than 10 in any particular species/diameter class.

Table 6. Diameter class definitions for small trees.

Class	Specification
0	Trees less than DBH
1	0.1" – 2.0"
3	2.1" – 4.0"
5	4.1" – 5.49"

4. Snags Data

Data will be collected from those dead trees (recently dead trees with brown needles will be considered a snag) that are at least 10" DBH and 15' tall on the plot. The following data will be collected:

Species
Diameter Class (estimated to nearest inch)
Total Height (estimated to nearest foot)
Structural Class (Table B10 and Figure 3)

5. Notes to the Forester

A "Notes to the Forester" card provided by the State shall be filled out upon completion of each stand cruised. It may be necessary to keep separate notes on the stand as it is being cruised, to ensure information is accurate and thorough. The card will aid the area forester in filling out the "Stand Narrative", a long text field that allows comments about the stand to be stored in the database. Included on this card will be information pertaining to stand structure, silviculture, problems with disease or insects, GIS corrections etc.

B. Cruise Data Codes and Definitions

1. Tree Product Codes

The product code is the first character of the 2-character Product/Vigor code.

Table 7. Tree product codes.

Code	Product Class	Definition/Description
S	Sawtimber	Any tree 8.0 inches DBH or larger that has one sound 8-foot log or more.
U	Utility Pole	Any tree containing logs of acceptable form and defect to meet specifications set out in the IDL Administrative Rules and Timber Management Procedures Manual.
P	Pulpwood	Any tree 8.0 inches DBH or larger that does not have one sound 8-foot log or more (sawlog scale) but could be used for pulpwood.
X	Unmerchantable Due to Size	All trees growing with the prospect of meeting, but not yet attaining, sawtimber, utility pole or pulpwood size specifications.
C	Living Cull	Any live tree that will not meet specifications for other product classes
SN	Dead Cull (Snag)	A dead tree that will not meet specifications for any other product class

2. Tree Vigor Codes

The tree vigor is the second character of the 2-character Product/Vigor codes.

Table 8. Tree vigor codes.

Code	Vigor Class
1	Superior
2	Excellent
3	Average
4	Poor
5	Very Poor (Dying)
6	Dead

The following vigor-class guides were composed using experience gained in several years of timber marking and tree rating on forest inventory plots. Personnel using this guide should keep in mind that the factors listed are "guides" not "rules." There will be many exceptions, more in some species than in others. The cruiser's judgment and common sense and experience with each species and stand will be as important in determining vigor as the guide.

Some stands may be generally low in health and vigor. The percentage figures used in the summary of the five vigor classes apply to normally healthy stands. Each tree's vigor must be rated relative to the good-health specimens in the entire forest. Do not range the vigor classes for "poor" to "superior" within one specific locality or stand. An "average vigor tree" should appear average to all trees in a forest being inventoried.

Conversely, some stands are relatively healthy and so should show a high percentage of "excellents" and "superiors" compared to the entire forest.

To use the guide, consider the several characteristics of the three major points: the crown, the bole, and the butt-root area. The cruiser's experience and the guide should show the cruiser whether the tree is average to better, or average to poorer. The cruiser can then rate the tree as excellent or superior on the healthiest side or poor to very poor (dying) on the unhealthy side.

Guide for General Vigor-Class Rating - All Species:

Superior: Top 10 percent of the Excellent. Usually dominant. Cannot have any overmaturity weaknesses. Must be completely free of disease including mechanical damages and insects. Only perfect trees. Those that appear genetically superior in all characters that would be suitable for breeding and progeny testing for superior parent trees.

Excellent: Mostly dominants and codominants, but some intermediates of tolerant species. Best 20 percent of normally healthy stands that are free of epidemic diseases and insects, and not showing overmaturity weaknesses.

Average: Middle 50 percent of health classes. Many dominants and codominants if showing some overmaturity weaknesses or moderate loss of vigor due to insects or disease. Many intermediates. Few if any suppressed of intolerant species. Many suppressed and many intermediates of tolerant species that will respond well to release.

Poor: All white pine with medium blister rust infection or minor spike-top. About 20 percent of a normal stand. Trees which are suppressed or intermediates. Those trees approaching mortal damage from disease or insects or overmaturity. Those poor-health intermediates and suppressed that will not respond to release but are not dying in ten years.

Very Poor (Dying): All white pine with heavy blister rust infection or considerable spike-top, or one or more stem cankers in lower 90 percent of bole. All trees that will die in ten years. In normal stands, the worst 10 percent in relative health. Mostly trees that are suppressed, severely diseased, defoliated or infested with insects. All trees dying from overmaturity.

Crown Characteristics of Average and Better Trees:

Needles - of good color, bright. Dense, full compliment on all younger twigs; full length; only old needles dying back. Needles utilizing all light available, thrifty.

Crown area & volume maximum - 40 percent of total height of bole or more; crown full and dense, perimeter uniform and smooth for species.

Limbs - uniform, small to medium size for species. Well balanced between twigs and larger portion of branch. Most species with none or very little droop on branch ends; branches angle upward in upper crown.

Crown shape - regular, tapered, more or less pointed on top, space well filled in. No excessive irregularity or gaps for species. Crown showing thrift at using aerial space available in dense stands.

Bole Characteristics of Average and Better Trees:

Smoothness - relatively free of lesions, conks, burls, swollen knots. Colors indicating relatively new bark.

Bark - older portions of bark with wide plates & deep fissures. Most species showing new bark exposed in fissures. Bark sloughing slower than produced. Color bright, minimal fading and weathering relative to protection from the weather.

Upper bole - whorls distinct and uniform. Top 10 percent not rough and gnarled. Limbs small, top log is merchantable to minimum top D.I.B.

Butt-Root Area of Average and Better Trees

Bark - plates on mature trees large and wide for species. Fissures deep, bark colors bright for species. Usually, newly formed bark exposed in fissures.

Smoothness - free of conks, burls, catfaces, lesions and other scars.

Roots - appear deep and well distributed for species. Absence of root rots and erosion of soil around roots; roots not abnormally exposed.

Crown Characteristics of Average to Poorer Trees

Needles - of poor color, yellowing to faded green, sparse & thin. Few to numerous twigs, bare. Needles short. Old and newer needles dying back. Needles not utilizing all light available.

Crown area - for tree size is not maximum, less than cumulative of 40 percent of total height in crown. Crown has abnormal voids and thin areas. Perimeter rough and ragged for species.

Limbs - irregular, some to many rough, crooked and large. Poor balance between twigs and stems. Some too many dead limbs within live crown. Larch and Douglas-fir with mistletoe, adventitious twigs on many species. Limbs often on only one or two sides.

Crown shape - irregular, ragged. Older trees flat-topped, crown not well-tapered or conical for age and species. Crown often short, except on narrow-crowned species. Leader indistinct, interwhorl space small or none and indefinite. Top may be spiked or broken out.

Bole Characteristics of Average to Poorer Trees:

Smoothness - pole outline rough and lumpy with lesions, burls, swollen knots, conks, scars, catfaces; upper bole color dirty.

Bark - color indicating relatively old bark. Fissures shallow, bark sloughing faster than produced. On lower bole, bark is getting thinner than normal for species. Color dull, dirty, frequently faded and weathered relative to protection from the weather.

Upper bole - whorls indistinct, closely spaced. Top 10 percent of bole crooked, gnarled or rough with coarse limbs. Top log usually unmerchantable due to roughness on older trees.

Butt-Root Area of Average to Poorer Trees:

Bark - plates smaller than normal for species and age. Fissures shallow. Bark colors dull and faded for species. Lack of evidence of newly formed bark in fissures.

Smoothness - outline lumpy or irregular. Swollen knots, conks, catfaces, churn-butt, lesions, frost checks, and burls.

Roots - may be exposed. Soil eroded from around roots. Evidence of root rots and poor distribution of roots.

3 Tree Damage Codes

Table 9. Tree damage codes.

Code	Tree Damage
BT	Broken Top
FT	Forked Top
DT	Dead Top
AN	Animal
IN	Insect
DI	Disease

4. Snag Structural Class Codes¹

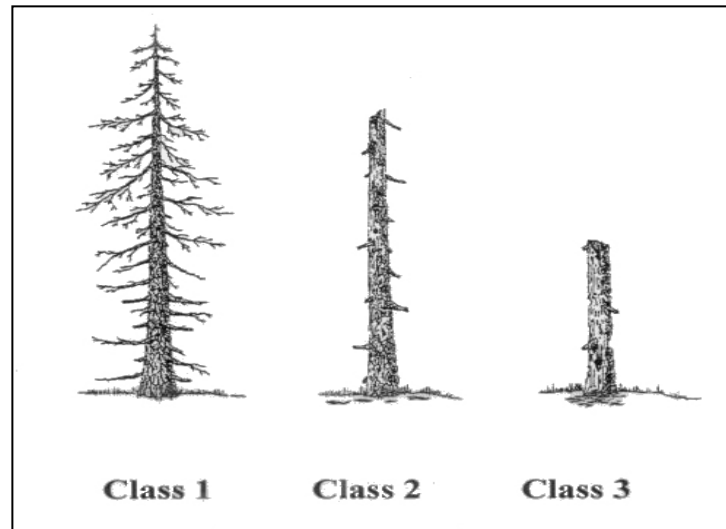
Table 10. Snag structural class codes.

Code	Structural Class
1	Recently Dead
2	Dead at Least Several Years
3	Dead a Long Time

¹ Snag structural classes and LWD decay classes from: Parks, Catherine G., Bull, Evelyn L.; Torgersen, Torolf R. 1997. Field guide for the identification of snags and logs in the interior Columbia River basin. Gen. Tech. Rep. PNW-GTR-390. Portland, OR: USDA, USFS, PNW Research Station. 40 p.

This classification system is designed to fit most snags. There will be some snags that do not readily fall into one of the classes. The amount of bark and branches, condition of the treetop, and condition of the wood identify the structural class. These characteristics of the snag determine which wildlife is likely to use the snag.

Figure 3. Snag structural class examples.



Structural Class 1 represents those trees that have died recently and retain most of their bark and most of their branches; the top is intact. Very little decay has occurred in the wood, unless the tree had heart-rot decay when it was living. Class 1 snags typically are used primarily for foraging by woodpeckers on bark beetles in and under the bark. Once the bark loosens, bats can roost and brown creepers (*Certhia americana*) can nest under the bark.

Structural Class 2 represents those snags that have been dead at least several years and have lost some branches and some bark (except grand fir and Douglas-fir, which tend to retain their bark after death); tops are often broken; there is some evidence of decay. Class 2 snags typically are used by woodpeckers for nesting, foraging in the bark, and foraging in the interior after carpenter ants.

Structural Class 3 represents those snags that have been dead a long time and lack branches and bark (except grand fir and Douglas-fir, which tend to retain their bark after death). Tops are broken off, and the sapwood and heartwood are extensively decayed.

The primary use of these trees is by woodpeckers foraging on carpenter ants and woodboring beetle larvae. Most of these trees are too decayed for woodpeckers to excavate a cavity in them, although secondary cavity nesters may use existing cavities.

Idaho Department of Lands Cruise Accuracy Standards for Timber Sales

The following information is from the Timber Management Procedures Manual, Section B "Field Sampling (Cruising) Procedure". The following accuracy standards should be used as the target standards for all cruise designs.

A. ACCURACY STANDARDS

The following standards are to be used:

1. Cruise Statistics
 - a. Sawlog timber sales will be based on NET volume/acre, except in instances where an individual tree tally cruise design is used.
 - b. Cedar utility pole sales will be based on stem frequency or NET volume/acre.
 - c. Pulp sales with mandatory pulp removal will be based on GROSS volume/acre.
2. Cruise Accuracy Standards
 - a. For volumes of 7,000 BF/acre and greater or areas over 320 acres, the maximum S.E. will be $\pm 10\%$ to 1 S.D. ($t=1$ at 68.3 %).
 - b. For volumes between 7,000 BF/acre and 3,500 BF/acre, the maximum S.E. will be ± 700 BF/acre to 1 S.D. ($t=1$ at 68.3 %).
 - c. For volumes less than 3,500 BF/acre, the maximum percentage S.E. will be $\pm 20\%$ to 1 S.D. ($t=1$ at 68.3 %).
 - d. Cruise Accuracy Standards for CEDAR POLE sales will be $\pm 10\%$ S.E. to 1 S.D. maximum. ($t=1$ at 68.3 %).
 - e. Cruise Accuracy Standards for LUMP SUM sales will have a maximum standard error of $\pm 10\%$ to 1 standard deviation. ($t=1$ at 68.3 %).
 - f. Cruise Accuracy Standards for individual (sample) tree tally cruises will have a maximum standard error of $\pm 10\%$ to 1 standard deviation. ($t=1$ at 68.3 %).
3. The sampling error of two or more different units of measure can be combined to produce a sampling error for the sale. This allows the most efficient cruise method to be used for the individual stands being measured.

An example of the benefits of combining standard error would be when the sale has an off-site development package with significant right-of-way volume. The main sale could be cruised using a variable plot cruise and the off-site R.O.W. could be cruised using a fixed plot. By combining standard errors, the number of fixed plots on the right-of-way would be significantly reduced, as opposed to installing enough plots to have the right-of-way meet the $\pm 10\%$ standard error requirement. Various formulas exist for calculating a combined sampling error (see Appendix B-1 for references).

4. Maximum Intensity - Some stands are so variable that the effort expended to reach a given precision far exceeds the benefits of that precision. Accordingly, the department has established a maximum cruise intensity of one plot per two acres of the timbered area of the sale for sales exceeding 60 acres in size. The minimum number of plots for these sales shall be 30. For sales 60 acres and below, a total of 30 plots shall be taken.

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Stocked = Is the plot stocked - yes or no

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CONTRACT NO. 10-219-310053

STOCKING SURVEY PROJECT DESCRIPTION

PROJECT NAME: Initial Backside Stocking

PROJECT NUMBER: 31-053-100-10

SUPERVISORY AREA: Cataldo

PROJECT ACRES: 292

LOCATION

The project is located on the Idaho Department of Lands forestlands of the Cataldo Area. Units are located on the east side of Initial Peak off of highway 3 about 3 air miles south of Rose Lake. See Maps for unit location.

AREA HISTORY:

Unit 1: This unit was clearcut during the Initial Backside Bug Timber Sale (TS-3-3219) in 2001. A broadcast burn was conducted in fall of 2004, but desired site preparation was achieved only in certain areas. Approximately two third of this unit was planted at a 10' x 10' spacing with the Initial Backside Bugs Planting Project (31-007-102-05) in the spring of 2005. Species composition consisted of; PP 50%, WL 40%, and WP 10%. Examination of the units in the spring of 2006 and 2008 indicated very low survival of planted trees with few natural seeding and some significantly large gaps of no trees.

STOCKING SURVEY GOALS:

1. Determine the numbers, uniformity and status of seedling stocking over the project area.
2. Determine the amount of vegetative ground cover.
3. Determine the amount of plantable ground currently existing in the project area.
4. Collect data necessary to determine if additional site preparation and planting is needed to bring the project area up to acceptable stocking levels.

CONTRACT PERIOD

Contract work may commence once the contractor has received a signed copy of the contract and has had a prework conference with the Contract Supervisor. The contract will expire June 30, 2010

PAYMENT

The first partial payment may be initiated by the Contractor after completion of a minimum of 250 plots on satisfactorily completed units. Additional payments may be initiated by the Contractor following completion of at least another 250 plots on satisfactorily completed units. Payments will be made at rates set forth in Schedule A attached hereto.

PROJECT SPECIFICATIONS:

Plots will be located and data collected according to specifications and procedures described in the master Stocking Survey Contract and the Idaho Department of Lands Stand Based Inventory System – Timber Cruising Field Manual as specified by the Contract Supervisor. Specific sections of that manual that will be followed are the Regeneration (Small Tree) Data, Notes to the Forester, the Cruise Map and related tables and figures. Trees larger than 5.50 inches DBH, snags and large woody debris will not be surveyed.

Data will be collected using handheld electronic data recorders and on the Notes to the Forester sheets as described in the master contract and as specified by the Contract Supervisor.

Three seedlings in their first growing season may be considered as one tree when no others are available.

Non-plantable (rock, debris, water) areas on a plot will be recorded as a percentage of the entire plot along with the reason for non-plantable (rock, debris, water).

Notes to Forester sheets will also be used to record overall status of the unit and provide notes on specific plots as per the Contract Supervisor. Data such as animal damage, disease, excessive vegetation competition, and future needs are examples of data to be recorded by plot or by stand on the Notes to the Forester Sheets.

INFORMATION:

Further information is available by contacting the following Idaho Department of Lands Supervisory Area office:

Idaho Department of Lands
Cataldo Area Office
80 Hilltop Overpass Road
Kingston, ID. 83839
Phone: (208) 682-4611
FAX: (208) 682-2991
Contact Name: Jeanne Bradley, Resource Specialist, Sr

